

Release notes for ENDF/B Development n-092_U_233
evaluation



May 26, 2017

- recent Warnings:

1. L Dependent Scattering Radius in the Evaluation is Zero.
0: AP(E) is 0

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [1193 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / Reich_Moore (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 2.0 for "competitive"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 3.0 for "competitive"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 2.0 for "competitive"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 3.0 for "competitive"
... plus 17 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.39%
```

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

```
Section 1 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6
delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.
```

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

```
Section 3 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.
```

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

```
Section 3 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.
```

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

```
Section 4 (n + U233): / Form 'eval': (Error # 1): Condition num.
```

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + U233): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 6 (n[multiplicity:'2'] + U232 + gamma): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 7 (n[multiplicity:'3'] + U231 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 15 (n[multiplicity:'4'] + U230 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 16 (n + (U233_e1 -> U233 + gamma)): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 ($n + (U233_e2 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 18 ($n + (U233_e3 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 19 ($n + (U233_e4 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 20 ($n + (U233_e5 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 21 ($n + (U233_e6 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 22 ($n + (U233_e7 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 23 ($n + (U233_e8 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 24 ($n + (U233_e9 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

23. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 25 ($n + (U233_e10 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
24. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 26 ($n + (U233_e11 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
25. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 27 ($n + (U233_e12 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
26. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 28 ($n + (U233_e13 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
27. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 29 ($n + (U233_e14 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
28. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 30 ($n + (U233_e15 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
29. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 31 ($n + (U233_e16 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
30. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 32 ($n + (U233_e17 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

31. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 33 ($n + (U233_e18 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
32. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 34 ($n + (U233_e19 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
33. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 35 ($n + (U233_e20 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
34. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 36 ($n + (U233_e21 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
35. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 37 ($n + (U233_e22 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
36. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 38 ($n + (U233_e23 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
37. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 39 ($n + (U233_e24 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
38. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 40 ($n + (U233_e25 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

39. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 41 ($n + (U233_e26 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
40. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 42 ($n + (U233_e27 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
41. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 43 ($n + (U233_e28 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
42. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 44 ($n + (U233_e29 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
43. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 45 ($n + (U233_e30 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
44. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 46 ($n + (U233_c \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
45. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 47 ($U234 + \gamma$): / Form 'eval': (Error # 1): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
 WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
46. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 47 ($U234 + \gamma$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

47. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 48 ($n + U233$ [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

48. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 49 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.383323e-20) is too small

49. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 50 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.991495e-20) is too small

50. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 51 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.040569e-20) is too small

51. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 52 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.997628e-20) is too small

52. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 53 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

53. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 54 ($n[multiplicity:energyDependent, emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

54. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 55 (n/multiplicity:'energyDependent', emissionMode:'prompt'] + n/emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

- fudge-4.0 Errors:

1. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (548906.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

2. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (548906.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (155902.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

```
... plus 61 more instances of this message
```

3. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

4. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

5. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (155902.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

6. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

7. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (197853.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
```

8. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_g / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (505800.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
9. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_h / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
10. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_i / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (331850.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
11. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_j / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
12. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_k / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (417558.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
13. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_l / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (505800.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
14. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_m / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (197853.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
15. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_n / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
16. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_o / Multiplicity: (Error\ #0): Domain\ mismatch\ (a)$

WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

17. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_p / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
18. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_q / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
19. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_r / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (331850.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
20. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_s / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
21. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_t / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (417558.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
22. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_u / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
23. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_v / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
24. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_w / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
25. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_x / Multiplicity: (Error\ \# 0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

26. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_y / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (458088.0 → 20000000.0) vs (110954.0 → 20000000.0)
27. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_z / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)
28. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_aa / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)
29. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_ab / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)
30. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_ac / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)
31. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_ad / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (426840.0 → 20000000.0) vs (110954.0 → 20000000.0)
32. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_ae / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)
33. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_af / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (433870.0 → 20000000.0) vs (110954.0 → 20000000.0)
34. Energy range of data set does not match cross section range
 $reaction\ label\ 31: n + (U233_c \rightarrow U233 + gamma) / Product: U233_c / Decay\ product: gamma_ag / Multiplicity: (Error\ \#0): Domain\ mismatch\ (a)$
- WARNING: Domain doesn't match the cross section domain: (700000.0 → 20000000.0) vs (110954.0 → 20000000.0)

35. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
36. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
37. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (412950.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
38. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (412950.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
39. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
40. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_am / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (417558.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
41. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_an / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (426840.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
42. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ao / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (499151.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
43. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (433870.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_aq / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (412950.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

45. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

46. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (412950.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

47. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_at / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

48. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_au / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (417558.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

49. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_av / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

50. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_aw / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (426840.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

51. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ax / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (433870.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

52. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ay / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (548906.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

53. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_az / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (458088.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

54. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_ba / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (600000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bb / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

56. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bc / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (499151.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

57. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bd / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (505800.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

58. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_be / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

59. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bf / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (519790.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

60. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bg / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

61. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma_bh / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (564031.0 -> 20000000.0) vs (110954.0 -> 20000000.0)

62. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma.bi / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
63. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma.bj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
64. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma.bk / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
65. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma.bl / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
66. Energy range of data set does not match cross section range
reaction label 31: n + (U233_c -> U233 + gamma) / Product: U233_c / Decay product: gamma.bm / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110954.0 -> 20000000.0)
67. Calculated and tabulated Q values disagree.
reaction label 32: n[multiplicity:'2'] + U232 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5492335.748687744 eV vs -5762090. eV!
68. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma.a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
69. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma.a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
70. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma.b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

71. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
72. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
73. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
74. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
75. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
76. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
77. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
78. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
79. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

80. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
81. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
82. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
83. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
84. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
85. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
86. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
87. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
88. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

89. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

90. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

91. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

92. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

93. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

94. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

95. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

96. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

97. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

98. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

99. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

100. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

102. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

103. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

104. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

105. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

106. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

107. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
108. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
109. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
110. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
111. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
112. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
113. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
114. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
115. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

116. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
117. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
118. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
119. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
120. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
121. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
122. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
123. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
124. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

125. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
126. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
127. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
128. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
129. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
130. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
131. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
132. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
133. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)

134. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
135. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
136. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
137. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
138. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
139. Energy range of data set does not match cross section range
reaction label 32: n[multiplicity:'2'] + U232 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (5787030.0 -> 20000000.0)
140. Calculated and tabulated Q values disagree.
reaction label 33: n[multiplicity:'3'] + U231 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12760288.00030518 eV vs -1.303e7 eV!
141. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
142. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)

143. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
144. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
145. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
146. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13500000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
147. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
148. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
149. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
150. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
151. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)

152. Energy range of data set does not match cross section range
reaction label 33: n[multiplicity:'3'] + U231 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (14000000.0 -> 20000000.0) vs (13086400.0 -> 20000000.0)
153. Calculated and tabulated Q values disagree.
reaction label 34: n[multiplicity:'4'] + U230 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -18638942.962677 eV vs -1.89087e7 eV!
154. Energy range of data set does not match cross section range
reaction label 34: n[multiplicity:'4'] + U230 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18990500.0 -> 20000000.0)
155. Energy range of data set does not match cross section range
reaction label 34: n[multiplicity:'4'] + U230 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (18990500.0 -> 20000000.0)
156. Calculated and tabulated Q values disagree.
reaction label 36: U234 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 7114407.323486328 eV vs 6844650. eV!
157. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 33: n + (U233_c -> U233 + gamma) total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 34.69%
158. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 34: n[multiplicity:'2'] + U232 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
159. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 35: n[multiplicity:'3'] + U231 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
160. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 36: n[multiplicity:'4'] + U230 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 50.46%
161. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0'] (Error # 0): Q mismatch

- WARNING: Calculated and tabulated Q-values disagree: 218014868028.6759 eV vs 1.91241e8 eV!
162. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 218014868028.6759 eV vs 1.91241e8 eV!
163. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 218014868028.6759 eV vs 1.91241e8 eV!
164. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 218014868028.6759 eV vs 1.91241e8 eV!
165. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 4 (n + U233): / Form 'eval': / Component 0 (Error # 0): Bad evs
- WARNING: 9 negative eigenvalues! Worst case = -1.235982e-05
166. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 6 (n[multiplicity:'2'] + U232 + gamma): / Form 'eval': (Error # 0): Bad evs
- WARNING: 2 negative eigenvalues! Worst case = -3.583427e-05
167. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 16 (n + (U233_e1 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs
- WARNING: 8 negative eigenvalues! Worst case = -1.302909e-04
168. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 17 (n + (U233_e2 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs
- WARNING: 7 negative eigenvalues! Worst case = -1.070587e-04
169. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 18 (n + (U233_e3 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs
- WARNING: 6 negative eigenvalues! Worst case = -1.352094e-04
170. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 19 (n + (U233_e4 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -9.817213e-05
171. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 20 (n + (U233_e5 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -4.067765e-05

172. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 21 ($n + (U233_e6 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -1.258154e-05
173. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 22 ($n + (U233_e7 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 6 negative eigenvalues! Worst case = -3.759219e-05
174. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 23 ($n + (U233_e8 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -6.380830e-06
175. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 24 ($n + (U233_e9 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -8.018772e-05
176. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 25 ($n + (U233_e10 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 6 negative eigenvalues! Worst case = -3.997017e-05
177. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 26 ($n + (U233_e11 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 4 negative eigenvalues! Worst case = -2.240725e-05
178. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 27 ($n + (U233_e12 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -1.185899e-05
179. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 28 ($n + (U233_e13 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -3.476258e-05
180. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 29 ($n + (U233_e14 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -7.884327e-06
181. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 30 ($n + (U233_e15 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 4 negative eigenvalues! Worst case = -3.136553e-05
182. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 31 ($n + (U233_e16 \rightarrow U233 + \gamma)$): / Form 'eval': (Error # 0): Bad evs
- WARNING: 5 negative eigenvalues! Worst case = -7.597909e-06

183. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 32 ($n + (U233_e17 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -8.670835e-05

184. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 33 ($n + (U233_e18 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -9.196294e-06

185. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 34 ($n + (U233_e19 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 6 negative eigenvalues! Worst case = -5.518104e-05

186. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 35 ($n + (U233_e20 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -2.397773e-05

187. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 36 ($n + (U233_e21 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -1.020042e-05

188. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 37 ($n + (U233_e22 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -8.454345e-06

189. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 38 ($n + (U233_e23 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -1.556864e-05

190. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 39 ($n + (U233_e24 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -3.620620e-05

191. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 40 ($n + (U233_e25 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -3.632014e-05

192. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 41 ($n + (U233_e26 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -1.569597e-05

193. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 42 ($n + (U233_e27 \rightarrow U233 + \text{gamma})$): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -9.585327e-06

194. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 43 (n + (U233_e28 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -1.002382e-05

195. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 44 (n + (U233_e29 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs

WARNING: 4 negative eigenvalues! Worst case = -9.092559e-06

196. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 45 (n + (U233_e30 -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs

WARNING: 5 negative eigenvalues! Worst case = -1.191719e-05

197. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 46 (n + (U233_c -> U233 + gamma)): / Form 'eval': (Error # 0): Bad evs

WARNING: 6 negative eigenvalues! Worst case = -9.786917e-05

198. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 47 (U234 + gamma): / Form 'eval': / Component 0 (Error # 0): Bad evs

WARNING: 12 negative eigenvalues! Worst case = -1.734407e-04

199. Since the min allowed variance is 0, this means really you have a negative variance!!!!
Section 47 (U234 + gamma): / Form 'eval': / Component 1 (Error # 0): Very small variance

WARNING: Encountered very small variance (-1.977340e-02%) at index 8.

WARNING: Encountered very small variance (-3.796910e-02%) at index 9.

WARNING: Encountered very small variance (-5.290510e-02%) at index 10.

WARNING: Encountered very small variance (-6.937170e-02%) at index 11.

... plus 21 more instances of this message

200. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 47 (U234 + gamma): / Form 'eval': (Error # 3): Bad evs

WARNING: 25 negative eigenvalues! Worst case = -8.494020e-02

201. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 48 (n + U233 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs 1 (Error # 0): Bad evs

WARNING: 10 negative eigenvalues! Worst case = -3.025482e-05

- njoy2012 Warnings:

1. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

```
---message from hinit---mt19 has no spectrum
mt18 spectrum will be used.
```

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

```
---message from hinit---mf6, mt 16 does not give recoil za= 92232
one-particle recoil approx. used.
```

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

```
---message from hinit---mf6, mt 17 does not give recoil za= 92231
one-particle recoil approx. used.
```

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

```
---message from hinit---mf6, mt 37 does not give recoil za= 92230
one-particle recoil approx. used.
```

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

```
---message from hinit---mf6, mt 51 does not give recoil za= 92233
one-particle recoil approx. used.
```

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

```
---message from hinit---mf6, mt 52 does not give recoil za= 92233
one-particle recoil approx. used.
```

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

```
---message from hinit---mf6, mt 53 does not give recoil za= 92233
one-particle recoil approx. used.
```

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

```
---message from hinit---mf6, mt 54 does not give recoil za= 92233
one-particle recoil approx. used.
```

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

```
---message from hinit---mf6, mt 55 does not give recoil za= 92233
one-particle recoil approx. used.
```

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

```
---message from hinit---mf6, mt 56 does not give recoil za= 92233
one-particle recoil approx. used.
```

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (10): HEATR/hinit (4)

---message from hinit---mf6, mt 57 does not give recoil za= 92233
one-particle recoil approx. used.

12. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (11): HEATR/hinit (4)

---message from hinit---mf6, mt 58 does not give recoil za= 92233
one-particle recoil approx. used.

13. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (12): HEATR/hinit (4)

---message from hinit---mf6, mt 59 does not give recoil za= 92233
one-particle recoil approx. used.

14. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (13): HEATR/hinit (4)

---message from hinit---mf6, mt 60 does not give recoil za= 92233
one-particle recoil approx. used.

15. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (14): HEATR/hinit (4)

---message from hinit---mf6, mt 61 does not give recoil za= 92233
one-particle recoil approx. used.

16. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (15): HEATR/hinit (4)

---message from hinit---mf6, mt 62 does not give recoil za= 92233
one-particle recoil approx. used.

17. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (16): HEATR/hinit (4)

---message from hinit---mf6, mt 63 does not give recoil za= 92233
one-particle recoil approx. used.

18. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (17): HEATR/hinit (4)

---message from hinit---mf6, mt 64 does not give recoil za= 92233
one-particle recoil approx. used.

19. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (18): HEATR/hinit (4)

---message from hinit---mf6, mt 65 does not give recoil za= 92233
one-particle recoil approx. used.

20. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (19): HEATR/hinit (4)

---message from hinit---mf6, mt 66 does not give recoil za= 92233
one-particle recoil approx. used.

21. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (20): HEATR/hinit (4)

---message from hinit---mf6, mt 67 does not give recoil za= 92233
one-particle recoil approx. used.

22. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (21): HEATR/hinit (4)

---message from hinit---mf6, mt 68 does not give recoil za= 92233
one-particle recoil approx. used.

23. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (22): HEATR/hinit (4)

---message from hinit---mf6, mt 69 does not give recoil za= 92233
one-particle recoil approx. used.

24. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (23): HEATR/hinit (4)

---message from hinit---mf6, mt 70 does not give recoil za= 92233
one-particle recoil approx. used.

25. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (24): HEATR/hinit (4)

---message from hinit---mf6, mt 71 does not give recoil za= 92233
one-particle recoil approx. used.

26. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (25): HEATR/hinit (4)

---message from hinit---mf6, mt 72 does not give recoil za= 92233
one-particle recoil approx. used.

27. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (26): HEATR/hinit (4)

---message from hinit---mf6, mt 73 does not give recoil za= 92233
one-particle recoil approx. used.

28. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (27): HEATR/hinit (4)

---message from hinit---mf6, mt 74 does not give recoil za= 92233
one-particle recoil approx. used.

29. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (28): HEATR/hinit (4)

---message from hinit---mf6, mt 75 does not give recoil za= 92233
one-particle recoil approx. used.

30. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (29): HEATR/hinit (4)

```
---message from hinit---mf6, mt 76 does not give recoil za= 92233
one-particle recoil approx. used.
```

31. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (30): HEATR/hinit (4)

```
---message from hinit---mf6, mt 77 does not give recoil za= 92233
one-particle recoil approx. used.
```

32. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (31): HEATR/hinit (4)

```
---message from hinit---mf6, mt 78 does not give recoil za= 92233
one-particle recoil approx. used.
```

33. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (32): HEATR/hinit (4)

```
---message from hinit---mf6, mt 79 does not give recoil za= 92233
one-particle recoil approx. used.
```

34. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (33): HEATR/hinit (4)

```
---message from hinit---mf6, mt 80 does not give recoil za= 92233
one-particle recoil approx. used.
```

35. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (34): HEATR/hinit (4)

```
---message from hinit---mf6, mt 91 does not give recoil za= 92233
one-particle recoil approx. used.
```

36. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (35): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 92234
photon momentum recoil used.
```

37. There is a problem with the fission energy release.
heatr...prompt kerma (46): HEATR/nheat (3)

```
---message from nheat---changed q from 1.912410E+08 to 1.809860E+08
for mt 18
```

38. Only partial urr covariance data was given.
errorr...produce cross section covariances (0): ERRORR/resprx (5)

```
---message from resprx---mf2 nls=1, but mf32 nls=0
continue with partial urr covariance data
```

39. No scattering radius uncertainty given.
errorr...produce cross section covariances (1): ERRORR/rpxlc12 (0)

```
---message from rpxlc12---no scattering radius uncertainty
```

40. Generic warning message
error...produce cross section covariances (2): Warning

```
---message from rpxlc12---resonance parameter loop done          2395.3s
```

41. Generic warning message
error...produce cross section covariances (3): Warning

```
---message from rpxlc12---sensitivity calculation continues      3024.0s
```

42. Generic warning message
error...produce cross section covariances (4): Warning

```
---message from rpxlc12---sensitivity calculation completed       4099.5s
```

43. Coefficient mismatch of some sort
covr...process covariance data (1): COVR/matshd (2)

```
---message from matshd---processing of mat/mt 9222/ 37 vs. mat1/mt1 9222/ 37
largest coefficient= 8.92416E+04 at index 610 618
```

44. The number of coefficients is too big.
covr...process covariance data (2): COVR/matshd (3)

```
---message from matshd--- 2 coefficients > 1
reset and continue.
```

45. The number of coefficients is too big.
covr...process covariance data (3): COVR/matshd (3)

```
---message from matshd--- 40 coefficients > 2
reset and continue
```

- **endf2htm** Warnings:

1. Build of a section of the HTML page failed because the format hasn't been implemented in ENDF2HTM.
MF32MT151: Unimplemented

```
At line 2659 of file endf.f
Fortran runtime error: Bad value during integer read
```